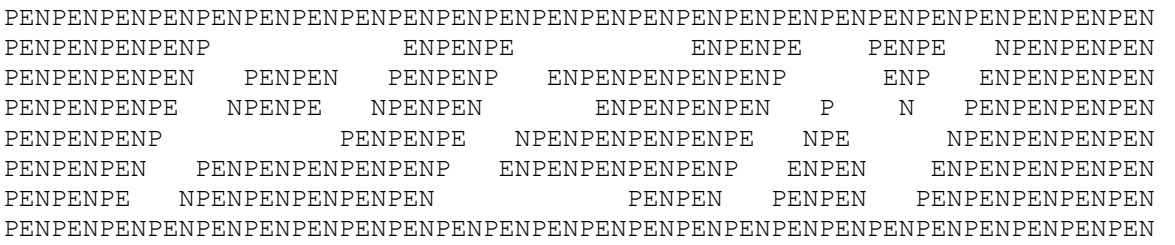

No. 25 November 1989 Oppenheimer Software

This is the twenty fifth edition of the Periodic Electronic Newsletter (PEN) for MCI Mail users assigned to Oppenheimer Software (MCI Mail agency NY4). You may respond to the PEN by typing ANSWER at the COMMAND: line that appears after you read this. This mailbox (218-0241) is toll free - you may write to it as often as you wish, at no charge! (Please note that you may order a toll free mail box - contact Oppenheimer Software for more information.)

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>>>>>>>>>>>>>>>>>>>>
NEED ANOTHER MAILBOX?
>>>>>>>>>>>>>>>>>>>>

Need another mailbox or account on MCI Mail? A SCRIPT called NEWUSER is available to allow you to register new mailboxes or accounts on MCI Mail, or provide referral information for others needing information. To use this feature, at the Command: prompt,

CREATE USING NEWUSER

Answer all questions, and follow the instructions at the end of the SCRIPT. You will be notified as soon as the new mailbox/account is active.

The NEWUSER script has been in use for over two years. Hundreds of new accounts, set up with the SCRIPT, have been "up and running", usually within 24 to 36 hours.

Note...
If you access MCI Mail via Lotus Express, Desktop Express or any of MCI Mail's LINK products, you will need to access MCI Mail via the interactive "terminal" mode.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
LAST CHANCE - NEW ACCESS NUMBERS
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

MCI Mail is discontinuing of the New York City, Ryebrook, Denver, Seattle, Los Angeles, St. Louis, and Sacramento access numbers. This is part of an ongoing transition away from local access numbers to nationwide use of the (FREE) toll free numbers.

Don't forget to change your access number in your communications program according to the table below. It will save you money.

Access Speed	800 Telephone Number
300, 1200 bps 8 bit, 1 stop, no parity	800-234-6245
2400 bps 7 bit, 1 stop, even parity	800-456-6245
Lotus Express & Desktop Express (up to 2400 bps)	800-825-1515
MNP Level 5 (up to 2400 baud)	800-333-1818

Please message us at mailbox 218-0241 or call MCI Mail Customer Support at 800-444-MAIL if you have any questions or need assistance.

>>>>>>>>>>>>>>>>>>>>>>>>
PRODUCT INFORMATION FORUM
>>>>>>>>>>>>>>>>>>>>>>>>

Businesses in the know sponsor lunch time vendor forums. These meetings provide an opportunity for the area managers to become familiar with new services and products in an casual setting without taking time off to visit trade shows. Managers and employees get a chance to learn about cost saving technologies used in other areas of the company through informal discussions, and question and answer periods.

If you would like to have an MCI Mail representative come to one of your forums, please message us at mailbox 218-0241.

>>>>>>>>>>>>>>>>>>>>>>>>

'TIMES THEY ARE A CHANGING
>>>>>>>>>>>>>>>>>>>>>>>>>

Watch out.... Unless you change your time settings on MCI Mail from Daylight to Standard time, the message you send at 5:00 PM saying that you are going home for the day will be time stamped 4:00 PM - your boss will love that!

No, there is nothing wrong with the clocks at MCI... rather, you need to adjust your time zone from Daylight to Standard time

If you use MCI Mail interactively, follow this dialogue:

Command: ACCOUNT

Do you wish to see your current ACCOUNT settings? NO
ACCOUNT setting you wish to change: TIME
Please enter your time zone: EST
^---(or your local time zone)
ACCOUNT setting you wish to change:
Are settings PERManent or TEMPorary: PERM
New ACCOUNT settings are now in effect.

Command:

If you are a Lotus Express user, don't forget to change your time zone there too.

Bring up the Communications Manager {ALT}{SHIFT}X, roll the cursor to the bottom of the screen and change it to EST (or your local time zone) by using the <- or -> keys.

It may also help to adjust the time in your computer. See your computer manuals for more information.

>>>>>>>>>>>>>>>>>>>>>>>>>
QUICK - TELL ME ABOUT......
>>>>>>>>>>>>>>>>>>>>>>>>>

You just got a call from a prospective client. They are looking to hire a consultant who can help then redesign their employee benefits package. Their workers have been asking for childrens day care.

They apologize for the late call, but they need your proposal by tomorrow. Your next call is to the deli downstairs to order some food. Looks like you are going to be working late tonight.

Next, to your computer. Turn it on, and log onto MCI Mail. At the Command: prompt, you type DOW to access the Dow Jones News Retrieval Service. At the next prompt, your enter //DOWQUEST.

DowQuest is an online database service that stores articles from 185 major national newspapers and journals for one year. DowQuest uses a two-step process to direct your search toward information that will be useful.

Entering a query in DowQuest requires no special commands or syntax. You

just enter words that describe your subject. The order is not especially important. Capitalization and punctuation are not necessary. Avoid irrelevant words , such as "Tell me..." or "I want to know...".

In general, the more words you use that relate to your subject, the better the initial response will be. Thus, you enter:

COMPANIES THAT OFFER DAY CARE AS BENEFIT FOR CHILDREN OF EMPLOYEES

After you enter your query, DowQuest returns with a starter list of headlines. Whether you enter a specific query such as the one above or a short, general query such as just DAY CARE, the best articles may not be found in the initial search. The real power of DowQuest comes from the second stage of a quest, when you select articles or paragraphs that are good examples of what you are looking for.

Although the articles are ranked according to how closely they match the words in your query, not all of the articles will be relevant to you. You can direct your search toward information that will be useful to you by indicating which articles, or paragraphs within articles, are examples of the subject or idea you are interested in.

To use this powerful second step, look through the pages of headlines to find articles that are examples of your subject.

If you want to view an article because its headline doesn't tell you enough about it, enter the article number and press {RETURN}. While viewing an article, you may select paragraphs that are examples of your subject.

When you find one or more articles that are examples, enter SEARCH and the numbers of up to three articles. (Example: SEARCH 1 4 6.) If you are viewing an article and find paragraphs that are examples, enter SEARCH and up to three paragraph numbers.

Based on the examples you select, DowQuest will retrieve a new set of headlines that will include more articles similar to your examples.

If you find among this new set of articles some even better examples of what you are interested in, you can improve your search further by using the SEARCH command again with these new examples.

You can continue this process until you find the information you are looking for or until you exhaust the articles available on a subject -- usually apparent when you keep seeing mostly the same headlines throughout the list on each new search.

If you would like to view the section of an article that has the most words in common with your query or your examples, type BEST and the article number. Note that this command takes you to the beginning of the "best" section. Because of page breaks, the words you are looking for may appear on the following page.

Whenever you see articles that you would like to print in full, type PRINT and the article numbers. (Example: PRINT 1 5.) You can then select either continuous print or page-by-page display, depending on whether your communications software and equipment can print or save data sent in

a continuous stream. The articles will be displayed without paragraph numbers and on-screen instructions.

After printing, you can return to the search process at the point you entered your print request.

Once you have become familiar with DowQuest, you may no longer need the instructions that appear on every screen. Type /OFF {RETURN} to stop the display of these instructions. Type /ON {RETURN} to resume display. If you need additional information while using DowQuest, type HELP at any time to view relevant instructions. Then press {RETURN} to continue your search.

In addition to the commands already described, some standard News/Retrieval commands work in DowQuest:

Use /T to go to the top screen, where you can begin a new search.
Use /M to go to the previous menu, including the list of headlines.
Use /R to go to the previous page of headlines or text of an article.
To save keystrokes, you can use shorthand versions of the SEARCH, PRINT and BEST commands. Type just S, P or B.
To enter DowQuest, enter either //DOWQUEST or //QUEST.

To return to the Master Menu, type //MENU and press {RETURN}. To return to MCI Mail, type DISC and press {RETURN}.

You have downloaded all of your information, exited from MCI Mail and finished writing the proposal with your word processor. An ASCII version is stored on your disk. Now it is back to MCI Mail to send the proposal by Fax Dispatch or as an MCI Mail Overnight Letter. Then, it's lights out, and just in time to make your regular train.

If you have questions, call the Dow Jones Hotline at (609) 452-1511. Between 6:00 AM and 9:00 PM eastern, DowQuest is $2.00 per minute and at other times, $1.00 per minute.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>
FAX DISPATCH PRICE REDUCTION
>>>>>>>>>>>>>>>>>>>>>>>>>>>>

On December 1, 1989, Fax Dispatch prices will be reduced to three countries -- the United Kingdom, Hong Kong and Japan. U.K. pricing, which is currently $1.95 for the first half page and $.95 for each additional half page, will be reduced to $1.50 and $.45 respectively. Hong Kong and Japan, both are $4.00 for the first half page and $1.10 each additional, will be $2.50 and $.75 respectively.

>>>
FAX DISPATCH UPGRADE-ALTERNATE ADDRESSING
>>>

Up to now, when you have sent a fax via Fax Dispatch, you identified the fax phone number the message was going to, and (optionally) the retry period. If that is all you need from Fax Dispatch, you can skip the rest of this article.

However, if you also need for Fax Dispatch to try a second fax number if the first is busy, or if you need for your message to be rerouted by telex, e-mail, or hard copy if the fax is undeliverable, or if you have been looking for more explicit prompts when entering messages, or if you would like to see your voice and fax phone numbers also appear on the cover page, or if you do not want to be bothered with delivery confirmations, keep reading.

Fax Dispatch alternate delivery reroutes your fax message, if unable to be delivered, to another fax, telex, electronic or postal address. You will automatically receive notification in your MCI Mail mailboxes if the message has been re-routed.

The prompted addressing feature asks for specific information needed for correct routing and for use on the automatically generated cover page. In addition, on-line error checking verifies that messages are correctly addressed.

Until now, all cancellation and receipt confirmation notices have always been placed in your mailbox. The new enhancement gives you the ability to suppress receipts, although cancellation notices will continue to be delivered. This is very helpful when doing large broadcasts.

The information below is divided into two sections - sending Fax Dispatch messages from Interactive (online) accounts, and sending Fax Dispatch from Link (Lotus/Desktop Express, LANs, mini and mainframe LINK products).

>>
ALTERNATE ADDRESSING-INTERACTIVE USERS
>>

For interactive users, fax messages can still be sent using the old EMS form:
To: Sam Smith (EMS)
EMS: FAX
MBX: PHONE:212-333-4444
MBX: RETRY:12

The new form allows the "fax" keyword to be entered immediately after the name:
To: Sam Smith (fax)

MCI Mail responds with:

Enter country name or country code of Recipient. Press RETURN if USA
Country:

You Enter:

1. {RETURN}
System responds: Destination is USA
or
2. Name of a valid country or a valid country code
System responds: Destination is (Name of Country)

MCI Mail responds with:

Recipient's Fax Number:

You Enter:

1. For messages destined to locations which require an area code and a local phone number, the Recipient Fax No: must include the area code followed by the local phone number. If an 800 number is provided, the prompt "Sender's Telephone Number" will be added. This information will be used for routing purposes, and will not be displayed to fax recipients.
or
2. If the sender indicates a country name or country code the system will input the international code (011) and the country code. The user will only have to supply the destination phone number which may include a city code.

MCI Mail responds with:

Options?

You Enter:

1. Retry: XX.X; Co: ; Phone: ; Fax: ;
This will work much like the Handling prompt does today. If multiple fields are provided they must be separated by commas. The information provided for Co: Voice: and Fax will be displayed on the cover page.

2. "YES" to get the following prompts:

Retry Period:
Recipient Company:
Sender Fax: {your fax phone number}
Sender Telephone: {your voice phone number}

3. "No" if you need none of the above options. The system will respond with the next prompt "Alternate Delivery?"

The information collected in Recipient Company, Sender Fax and Sender Voice will be displayed on the cover page of the fax message.

MCI Mail responds with

Alternate Delivery?

You Enter:

1. Paper; Paper,Onite; Telex; Fax; Instant; EMS
If you use this shortcut, you will be prompted for these delivery options as you are today. If Instant or EMS is selected, MCI Mail will verify that the name, as provided, is valid. If not, you will received an error message that

indicates that the recipient is not an MCI Mail subscriber.

2. If you enter "Y" or "Yes", you will be prompted for each of the alternative delivery option of choice. For example:

0 - No alternate delivery requested
1 - Enter a PAPER address
2 - Enter a TELEX address
3 - Enter an EMS address
4 - Enter a FAX address
5 - Send to the INSTANT address

MCI Mail will then prompt your for the required delivery information using existing addressing prompts.

After you have gone through the prompting sequence entering the information, it will be displayed followed by the prompt "Is this address correct (Yes or No)?" If you answer "N" or No", the entire address will be ignored and you will be presented with another TO: or CC: prompt. If you answered "Y" or Yes", the next TO: or CC: prompt will be displayed.

>>
ALTERNATE ADDRESSING-LOTUS/DESKTOP EXPRESS & LINK
>>

Obviously, Lotus Express, Desktop Express, and all of the MCI Mail LINK packages were programed prior to this upgrade of Fax Dispatch. That does not mean you can not take advantage of these features if you use these programs.

Prior to this upgrade, fax messages sent from Lotus/Desktop Express/LINK have taken the following form:

To: Sam Smith
EMS: FAX
MBX: PHONE:212-333-4444
MBX: RETRY 12

This format still works, but does not provide access to the additional features now available with Fax Dispatch. The new form is:

Label	You Enter	Maximum length	Required
TO:	Sam Smith	44	Yes
EMS:	MCI Mail		Yes
MBX:	FAXNo: 212-333-4444	20	Yes
MBX:	Retry: 2.5	4	No
MBX:	Company: A-One Corporation	44	No
MBX:	SFax: 212-444-5555	20	No
MBX:	SPhone: 212-555-6666	25	Yes if FAXNo contains 800 area code
MBX:	ALT: Telex/Fax/Paper/EMS/Instant	10	No

Please note that the fields following the TO: (or the CC:) are indented one space.

The optional ALT: field indicates the type of alternate delivery that is requested should delivery by fax not be successful. If an alternate address is specified, it must conform to the addressing rules for that type of delivery.

This is an example of a Fax Dispatch message sent with hardcopy for alternate delivery:

```
TO:  Sam Smith
EMS:  MCI Mail
MBX:  FAXNo: 212-333-4444
MBX:  Retry: 1
MBX:  ALT: Paper                              {required}
MBX:  ALT: EMS: MCI Mail                      {required}
MBX:  ALT: MBX: Company: ABC Company          {optional}
MBX:  ALT: MBX: Country:                      {optional}
MBX:  ALT: MBX: Line1: 123 Main St.           {required}
MBX:  ALT: MBX: Line2: Suite 700              {optional}
MBX:  ALT: MBX: City: Anytown                 {optional}
MBX:  ALT: MBX: State: NY                     {required}
MBX:  ALT: MBX: Code: 22102-4306              {required}
```

If the alternate address is Instant (the message should be delivered to an MCI Mailbox), no additional address information is required. The name specified in the TO: field must be a valid, unique MCI Mail subscriber. The ORGanization and LOCation qualifiers are allowed in order to uniquely specify a subscriber in the event that the alternate address is used.

This is an example of a Fax Dispatch message with an MCI Mail mailbox as the alternate delivery:

```
TO:  Sam Smith /MCI/Washington     {note-/MCI/Washington is optional}
EMS:  MCI Mail
MBX:  FAXNo: 212-333-4444
MBX:  Retry: 1.5
MBX:  ALT: Instant
```

This is an example of a Fax Dispatch message specifying an alternate address for another E-Mail system (non-X.400):

```
TO:  Sam Smith
EMS:  MCI Mail
MBX:  FAXNo: 212-333-4444
MBX:  Retry: 1
MBX:  ALT: EMS
MBX:  ALT: EMS: CompuServe
MBX:  ALT: MBX: CSI:776554,66521
```

This is an example of a Fax Dispatch message specifying an alternate address for an X.400 based E-mail system:

```
TO:  Sam Smith
EMS:  MCI Mail
MBX:  FAXNo: 212-333-4444
MBX:  Retry: 3.5
MBX:  ALT: EMS
```

```
MBX:  ALT: EMS: Digital
MBX:  ALT: MBX: OR=Digital
MBX:  ALT: MBX: UN=DT
MBX:  ALT: MBX: GI=Paul
```

This is an example of a Fax Dispatch message specifying an alternate address to a telex machine:

```
To: Sam Smith
EMS: MCI Mail
MBX: FaxNo: 212-333-4444
MBX: Retry: 2.5
MBX: SFax:  212-444-5555
MBX: ALT: Telex
MBX: ALT: EMS: MCI Mail
MBX  ALT: MBX: Country:851                          {required}
MBX: ALT: MBX: Telex:12345                          {required}
MBX: ALT: MBX: Answerback:123QAZ                    {optional}
```

```
>>>>>>>>>>>>>>>>>>>>>>>>>
ALTERNATE ADDRESSING LOGIC
>>>>>>>>>>>>>>>>>>>>>>>>>
```

How are alternate addresses processed?

Alternate fax: The system will make 2 attempts to the primary fax address. Then, it will alternate between the alternate and the primary fax address. The confirmation notice will indicate if the message was delivered to the alternate address. If the message could not be delivered to the primary or the alternate fax address, the cancellation notice will show the fax address which resulted in the message cancellation. The cancellation code will refer to the final delivery attempt.

Telex alternate: MCI Mail will attempt delivery to the fax address for the duration of the retry period before returning a message cancellation. Then MCI Mail will reroute the message to the telex network. You will also receive a telex message confirmation or cancellation.

Electronic Alternate: MCI Mail will attempt delivery to the fax address for the duration of the retry period before processing the message for electronic delivery. You will be notified that the fax delivery failed and that the message is being re-routed, as requested.

Paper Delivery: MCI Mail will attempt delivery to the fax address for the duration of the retry period before rerouting it to the hardcopy system. You will be notified that the fax delivery failed and that the message is being re-routed, as requested.

The message that is posted to the OUTBOX will display the following information:

```
To:  (Recipient's Name)/ Name of Company
FAX: xxx-xxx-xxxx      RETRY: xx.x
Sender Phone:
```

Co:
Fax:
Voice:
ALT: followed by the alternate address.

Optional fields that are not used will not affect the information that is displayed in the OUTBOX. For example, if you did not provide information at the OPTIONS field, the headers will not be displayed in the OUTBOX.

The message envelope posted to the INBOX will display the following information:

To: (Recipient's Name)
FAX:
Recipient Co:

This information will be used if ANswer EAch is typed and one of the recipient's on the distribution list contains a fax address.

>>>>>>>>>>>>>>>>>>>>>>>>>
FAX DISPATCH UPGRADE-NOTES
>>>>>>>>>>>>>>>>>>>>>>>>>

1. If a message is delivered to the alternate address, you will be billed for the alternate message delivery method.

2. The cover page has been redesigned as follows:
Your name is followed by the name of your organization as it appears on the online directory. For example,
Gary M. Oppenheimer /MCI Mail - NY4
Additionally, your voice phone number, your fax phone number, and the recipients company name will appear, if this information has been input.

3. If the command "CREATE MEMO" is used at the Command: prompt, or "MEMO" is typed at the HANDLING: prompt the first page of the text will include the information that appears on the envelope of an electronic message (all TO: and CC: names and addresses will be included).

4. The CHARGE: code command can now be used on a per address basis.

5. Shared List responses now include the number of fax recipients that are included on a shared list, so that all the delivery options are included when the system tells how many recipients received each of the different delivery options.

6. A new HANDLING: option can be used to suppress fax dispatch delivery confirmations by typing NO RECEIPT (abbreviated: NO RE) at the HANDLING: prompt or in parentheses after the recipient's name. If invoked, this command will suppress generation of a fax confirmation notice. But, if the message is not deliverable, you will still receive a cancellation notice. This option will be especially valuable if you use MCI Mail for message broadcasting.

7. The Company name field (44 characters), the Fax number (20 characters) and the Voice number (25 characters) are intended to display

specific information on the cover page but can actually contain any text (except for SPhone [Senders Voice] which needs a valid phone number if the FaxNo [Fax number] has an area code 800). You may consider using these fields for any comments such as:

Company: Attn: Sam Smith - Research Dept.
Fax number:Draft Version #2
Voice number: Please respond ASAP

>>
VIRUS ALERT NEWSLETTER TO BE PUBLISHED VIA MCI MAIL
>>

A new publication called The Virus Alert Newsletter will bring you carefully researched information on viruses and worms and how to protect personal computers, workstations, mainframes, and other computer systems. It will be published monthly via MCI Mail Electronic Mail, MCI Mail Fax Dispatch, or First Class mail. It will also issue immediate alerts via electronic mail or fax on new viruses and worms.

Virus Alert co-editor Wes Thomas was quoted extensively on the AP Newswire (Oct. 14) regarding the Friday the 13th virus. Virus Alert co-editor Allan Lundell is author of the newly-published book, Virus! (Contemporary Books, 1989).

The first issue of Virus Alert will be published Nov. 13. Subscription prices will be announced. A preliminary issue, published Oct. 13, is available free via MCI Mail from Wes Thomas (MCI ID: 224-4194).

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
MHS (LAN) GATEWAY TO MCI MAIL
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Since the beginning of local area networks (LAN), each developer designed their own mechanism for messaging. This work fine within a product, but made it nearly impossible for users on two incompatible LANs to communicate with each other. In 1987, Novell proposed a standard for LAN messaging called Message Handling Service or MHS.

M-Bridge is software package which acts as a gateway between the now standard MHS and MCI Mail. It works with any application that supports MHS, and runs on most LANs (including Novell, 3Com, Banyan and IBM), or stand-alone (IBM-compatible) PCs. By installing M-Bridge on the MHS server, users can transparently access any of MCI Mail's store and forward messaging services.

M-Bridge allows MHS users to access all MCI Mail messaging services, including communications with MCI Mail, Compuserve, Telemail, Dialcom and interconnected X.400 users, Fax dispatch, Telex Dispatch, and paper delivery via USPS or by courier. E-Mail environments, such as DEC All-In-1, VAX Mail, IBM PROFS, Wang Office and HP Desk Manager are also accessible.

The M-Bridge Administrator's utility program allows for maximum flexibility and control. Your administrator can perform the following set-up/management operations:

* Set-up the LAN administrator and postmaster local addresses
* Set user access privileges for message delivery types
* Set-up MCI Mail account information
* Set communications parameters
* Schedule M-Bridge connection to MCI Mail
* Review/clear logs for connections, outbound and inbound mail

M-Bridge runs concurrently with MHS on the MHS server or stand-alone PC. Messages must be created/read by an MHS-compatible front-end application. Operating requirements include an MCI Mail REMS account, MS-DOS 3.1 or above, 640K RAM and a Hayes-compatible modem. No additional hardware is necessary.

M-Bridge is priced at $995.00 per MHS server.

Please message us at 218-0241 to order M-BRIDGE.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
ARCHIVING DESKTOP EXPRESS MESSAGES
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

One of the problems in using Desktop Express (DTX), the MCI Mail communications package for the Macintosh, is cleaning up your mail and archiving it. As you probably know, in DTX, the envelope and contents are "connected". That is to say, if you trash a message or file that was sent or received via DTX by using the Macintosh Finder, the DTX MailFinder will say that it cannot find that message or file once you are in DTX. The only method DTX provides to avoid the problem is to use the Delete Selected Mail option from the MailFinder menu. This is a very tedious and slow process (for some unknown reason). Here is a quicker method.

Let's assume that your MCI Mail account setup file is called "MCI Mail" (the default).

1.) From the Setup menu select New MCI Mail Account...
2.) Enter your access numbers, password, port type etc., just like in your "MCI Mail" setup file.
3.) Save the setup file with a temporary name like TEMP1 or whatever.
4.) Quit DTX.
5.) Trash the existing MCI Mail setup file.
6.) Rename the TEMP1 setup file "MCI Mail" (Note that DTX expects a setup file named "MCI Mail" when it starts up)

The resulting effect is that all envelopes have been deleted or "disconnected" from DTX, leaving only the messages. This is MUCH faster than using the Delete Selected Mail option. The handiest way I have found to then archive the messages is:

1.) Create a folder like "August 89 Mail" or whatever.
2.) From the Mac Finder do a Select All from the edit menu to select all files in your Desktop Express folder. Then, shift-click to deselect the DTX application, setup files, and other files you DO NOT want to archive.
3.) Drag the whole mess into "August 89 Mail"
4.) Run Stuffit (author Ray Lau, shareware $20, or commercial version available from Alladin Software) to compress

(Lempel-Ziv) and archive the scores (hundreds?) of messages
into a single file.

(Reprinted with permission - Jeffrey McKune)

>>>>>>>>>>>>>>>>>>>>>>>>>>>
MCI MAIL TO INTERNET GATEWAY
>>>>>>>>>>>>>>>>>>>>>>>>>>>

MCI Mail and Internet, a nationwide umbrella network encompassing thousands of networks in the academic, government and research communities, have established an experimental link between the two electronic mail systems. The interconnection is a result of research performed by the Corporation for National Research Initiatives (NRI), a non profit research and development firm.

Funded in part by MCI, NRI undertook this project to identify and study the research issues associated with connecting the electronic messaging systems of distinct and dissimilar organizations. It is one of a number of initiatives to foster the development of today's information infrastructure.

The interconnection allows MCI Mail users to exchange messages with the more than 500,000 users of Internet including BITNet and CSNet (university networks), NSFNet (700+ research and education networks), ARPAnet and MILNet (Defense), NSNet (NASA), Science Network, and ESNet (Energy Sciences Network).

This is an experimental gateway. While it has been found to be very reliable, and MCI Mail is not "running" it, and it is not commercially supporting it at this time. MCI Mail is responsible for delivery to Internet, but Internet is responsible for the ultimate delivery to the recipient. Accordingly, MCI Mail cannot make guarantees about delivery. MCI Mail does not normally charge for nondeliverable messages sent to other MCI Mail users or commercially supported systems (Compuserve, etc.). However, if Internet is unable to deliver the message, MCI Mail will still bill you for sending the message. Of course there is no charge for receiving messages from Internet.

Please note that messages can take hours (or days) to travel through the Internet system.

Based on the outcome of the initial test period, MCI Mail will determine when the service will be available commercially.

You can send mail to Internet subscribers by using the following process:

Command: Create
TO: name of Internet subscriber, followed by (EMS)
EMS: Internet
MBX: Internet mail address (that is, username@hostname)

For example:

Command:
TO: Zsa Zsa Gabor (EMS)
EMS: Internet

MBX:ZZGABOR@MANNERS.EDU

The Internet addressing scheme can get complicated. However, the typical addressing format consists of the users name or id as it appears on their e-mail system, the name of the host e-mail system, and a suffix that indicates the environment (domain) of the e-mail system. Typical domains are:

.EDU	Educational institutions
.COM	Commercial institutions (including MCI Mail)
.GOV	Government institutions
.MIL	Military institutions
.ORG	Various organizations
.NET	Network operations
.BITNET	The BITNET
.MAILNET	The MAILNET
.??	2-character country code for routing to other countries
.OZ	Part of the Australian (.AU) name space.

2-character country codes include UK (United Kingdom), FR (France), IT (Italy), CA (Canada), AU (Australia), etc. These are the standard ISO 2-character country codes.

There is no common directory information between systems connected to Internet. You will need to get the exact Internet address from your correspondent prior to sending messages to them.

Messages can be sent from any Internet connected e-mail system to your MCI Mail mailbox using the following address:

1.	{username}@MCIMAIL.COM	eg.	GOPPENHEIMER@MCIMAIL.COM
2.	{MCI ID}@MCIMAIL.COM	eg.	2180241@MCIMAIL.COM

Note that since usernames are not unique on MCI Mail, use of the MCI ID is the preferred addressing scheme.

>>>>>>>>>>>>>>>>>>>>
1ST LOOK AT 1STCLASS
>>>>>>>>>>>>>>>>>>>>

For a several years, Lotus Express has been the communications program available for sending binary files via MCI Mail. It is a full featured TSR (background) program that manages the creation of messages, communications with MCI Mail and the storage of these messages on your disk.

For some people however, it is not the right choice. Lotus Express's use of RAM prevents some larger programs from running with it, it will not work well on LANS, and for a few, its $150 price is beyond their means.

The November 14th issue of PC Magazine includes an article describing a new communications program for use with MCI Mail called 1stClass.

1stClass itself is a communications server which uses the MCI Mail proprietary protocol, MCI Mail Link, to send and receive messages. Because it uses Mail Link, 1stClass users may attach binary files to the messages they send, and can exchange those files with users of other Mail

Link-based products, including Lotus Express, Desktop Express, MCI Mail's Profs/Vax/HP/Wang Link gateways and the upcoming release of Norton Commander.

Please note that 1stClass is not a Lotus Express replacement - it only offers the communications server, not the total mail creation and management environment of Lotus Express. You must use your own editor for creating and reading messages, your own filing systems for keeping track of your correspondence, and must initiate your sessions with MCI Mail. Also be aware that 1stClass provides neither X.PC nor MNP error protection. Any noise or static on the line may garble your file. It operates in just under 5K of memory.

1stClass can be downloaded from the PC MagNet system. Three files are needed:

1stClass.BAS or COM or ASM
COURIERS.BAS or COM or ASM
1stClass.CSF

If you wish, you may message us at mailbox 218-0241 to obtain a copy.

>>>>>>>>>>>>>>>>>>>>>>
LOTUS EXPRESS & DOS 4.0
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Have you tried to run Lotus Express with DOS 4.0?

It does not work. Some people say that DOS 4.0 does not work

We have a patch for Lotus Express that makes it work.

Please message us at mailbox 218-0241 to get a free copy of the patch.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
LOTUS EXPRESS AND MEMORY - CONTINUED
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

In the earliest days of MS-DOS personal computers, systems such as the early IBM PC came with one or two floppy disks holding 160K data each and 256K RAM. Now, an "entry level" system includes 66 times more disk storage (on a 20 megabyte system) but only 4 times the original RAM.

Newer programs are more powerful, and it often takes more RAM to provide that "horse power". Symphony and Multimate Advantage are just two of the several programs that require enough RAM themselves that they preclude the simultaneous use of Lotus Express. Even RAM conservative programs such as Word Perfect and Foxplus may, when other TSR progranms are loaded, leave us short of RAM for Lotus Express.

If you are using a 386 system, the QEMM memory manger described in the December 1988 PEN newsletter provides resources for moving part of Lotus Express to high memory. If you are using an MNP modem to access MCI Mail, Lotus Express can be loaded without the XPCDRV file saving about 7K RAM (be sure to set the "error protocol" field in the communications manager to NONE). Another option is to order Lotus Metro version 1.1 directly from Lotus. Its enhanced memory manager can provide significant

RAM savings.

Now, a shareware* program called SWAP can be used with Lotus Express and Lotus Metro to reduce the RAM held by Lotus Express to under 10K. How does it work? When you ask for Lotus Express to run, it swaps (bet you wondered where the program name came from) your application program out of RAM to disk or to Extended/Expanded memory, and replaces it with Lotus Express . Conversely, it moves Lotus Express back out and your application back to RAM when you are done with Express.

Obviously, when Express is swapped out, the it can not run so there is no background polling or communications. The MAILFILE and GETFILE utilities do not work either as their use implies Lotus Express running as a background application while these programs run in the foreground. Lastly, {F10}Quitting out of READER also terminates communications immediately, even if a message is being sent or received.

While this program is not right for everyone, it does merit a looking over if you are suffering from RAM cram. Information is included with the SWAP document procedures for getting technical questions answered. Neither MCI Mail nor Oppenheimer Software provide any support for SWAP.

If you are interested in obtaining a copy of SWAP, please send us a message us at mailbox 218-0241. It will be sent by MCI Mail as an attached file that must be read with Lotus Express.

* Editors Note: Shareware is a term describing a class of software that is distributed at no cost to you for evaluation. If you decide to keep and use the software more than 30 days, you are expected to order a registered copy from the owner and pay for it. Information included with the SWAP program explains this is more detail.

>>>>>>>>>>>>>
LINE PROBLEMS
>>>>>>>>>>>>>

We occasionally get calls or messages from MCI Mail users complaining about excessive line noise which results in garbling of messages. These problems most often result from using an inferior modem, a phone line that is running past a noise source (florescent lights, air conditions, water coolers, etc), incorrect communications software settings, or a temporary condition on the local phone lines.

If you experience problems accessing MCI Mail, and it can not be traced to any of these causes, please fill in the below form as soon as possible and send it without delay to mailbox MCI HELP. It would also help if you would CC: mailbox 218-0241.

_____

Customer Name:

MCI ID:

Customer Contact Phone Number (Voice):

Number Dialing From (number your modem is attached to):

Local Telephone Company Name:

Type of Phone Used:
Choose 1: Business Residence Hotel Coin
Choose 1: Tone Pulse PBX

Type of Equipment:

What brand/model PC or terminal do you use:

What brand/model modem, and at what baud rate (speed):

Other Peripherals connected to your system:

Which 800 number are you attempting to reach MCI Mail through?

Any other MCI Mail access number being dialed?

MCI Mail Pad Port you reached (displayed when you log on):

EXACT TIME CALL WAS PLACED:

Explanation of Problem:

MCI can only trace a problem within 12 hours of the call being placed, so please send this form immediately.

>>>>>>>>>>>
POWER USER
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The Power User column this is skipping an issue to make room for more pressing articles this month. It will return with the next PEN newsletter.

>>>>>>>>>>>>>>
Till Next Time
>>>>>>>>>>>>>>

Gary.....
MCI Mail Agency NY4
MCI ID# 218-0241
Telex: 6502180241
Tel No. 212-724-9785